

Report No.:

Test Time: 2022/8/29 14:18

## Luminaire Property

Luminaire Manufacturer:

Luminaire Category: PNM240ASWH

Luminous Length (mm): 600

Luminous Height (mm): 22

Current: 0.481 A

Power Factor: 1.000

Luminaire Description: PNM240ASWH

Luminous Width (mm): 65

Voltage: 24.0 V

Power: 11.53 W

## Photometric Results

CIE Class: Direct

Measurement Flux: 1194 lm

Downward Ratio: 99%

Horizontal Diffuse Angle(10%,50%): H139.8,H66.5

Vertical Diffuse Angle(10%,50%): V151.1,V85.1

Luminaire Efficacy Rating (LER): 104

Max. Intensity: 868.5 cd

Total Rated Lamp Lumens: 1194.0 lm

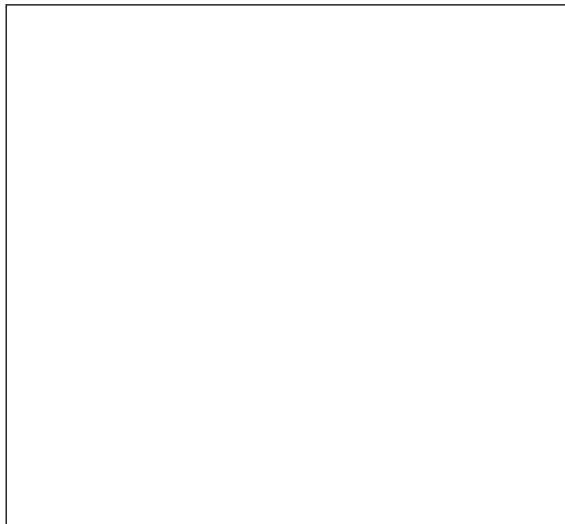
Efficiency: 100%

Upward Ratio: 1%

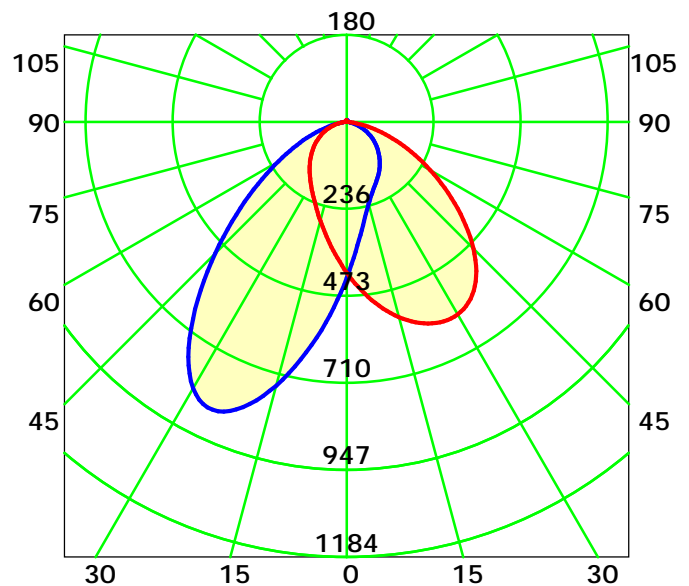
Central Intensity: 424.62 cd

Pos of Max. Intensity: H150 V23

Picture Of Luminaire



Luminous Intensity Distribution Curve



Average Diffuse Angle(50%): 75.8° Unit: cd

— C0-C180 — C90-C270

C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0

Test Device: GPM-1800B

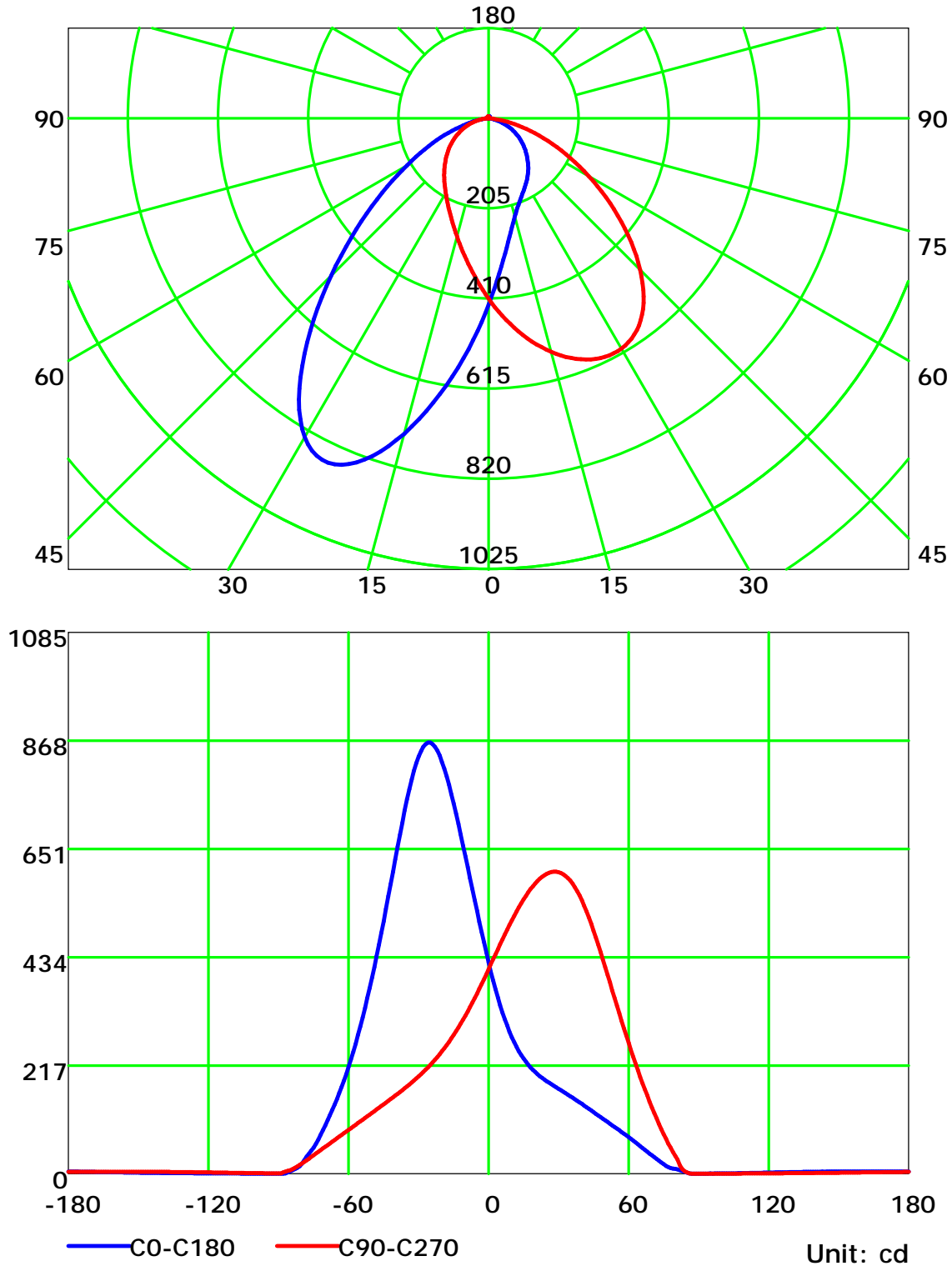
Distance: 9.028 m

Humidity: 60%

Inspector:



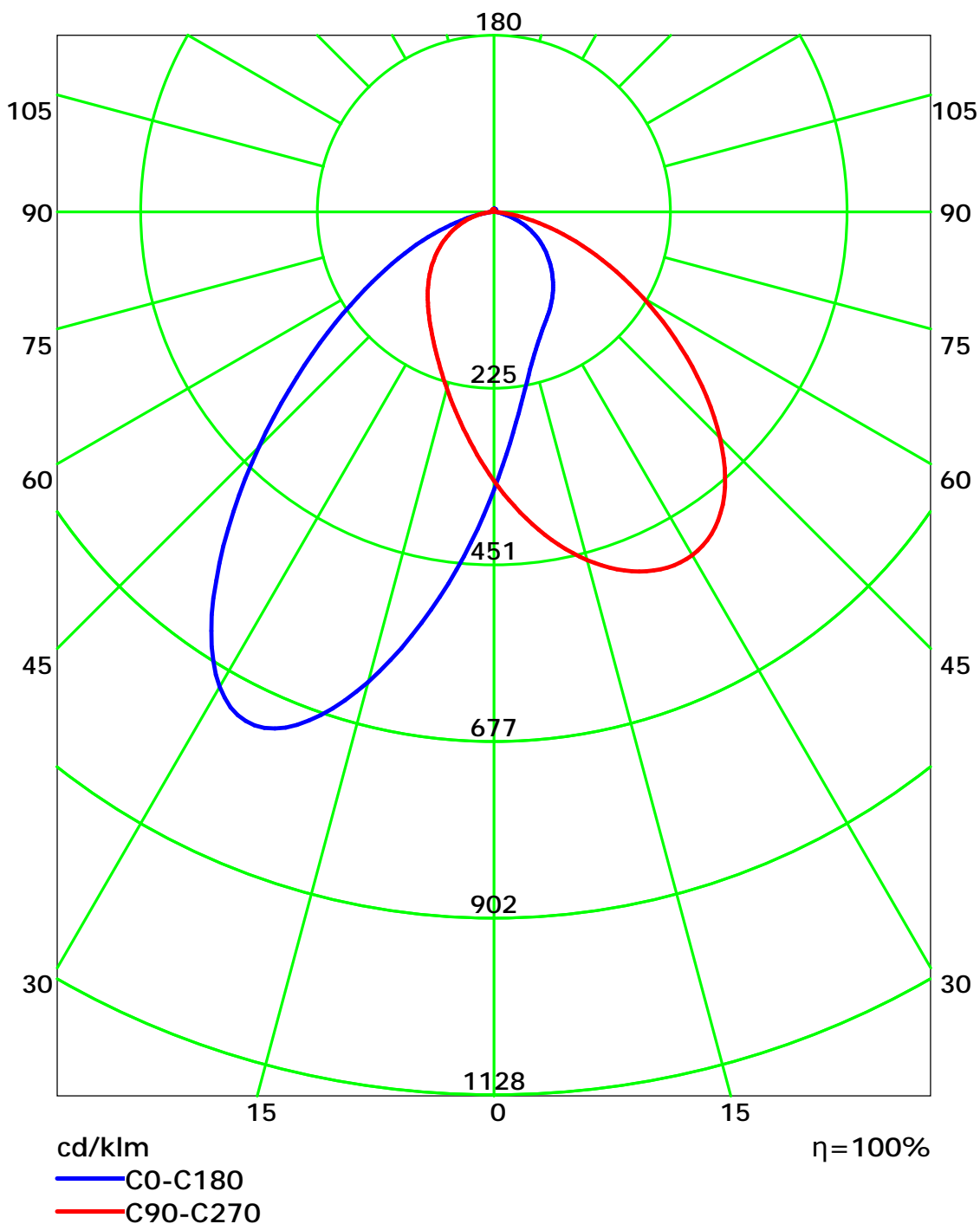
## Luminous Intensity Distribution Curve



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Luminous Intensity Distribution Curve(cd/klm)



C Plane (°): 0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

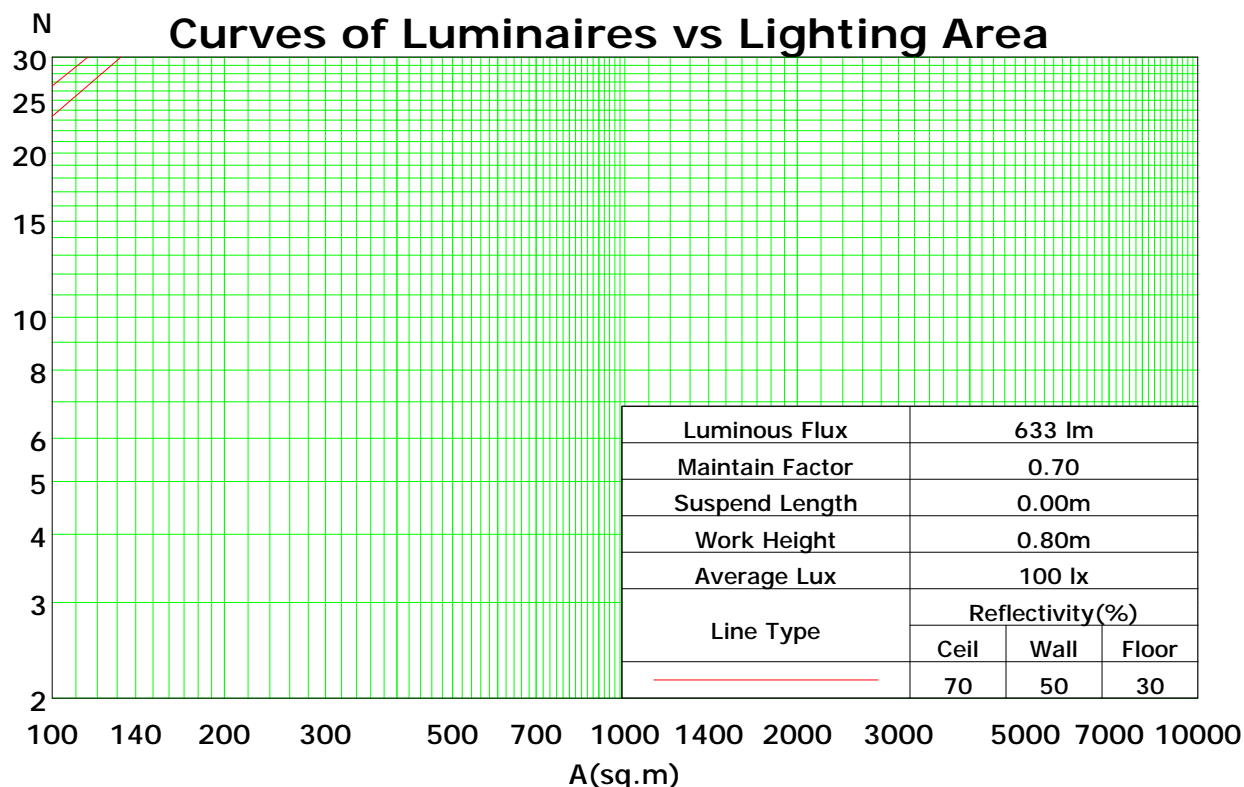
## Coefficients Of Utilization - Zonal Cavity Method

RC	0.8	0.8	0.8	0.8	0.7	0.7	0.7	0.7	0.5	0.5	0.5	0.3	0.3	0.3	0.1	0.1	0.1	0
RW	0.7	0.5	0.3	0.1	0.7	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0.5	0.3	0.1	0
RCR	RF = 0.2																	
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	101	101	101	99
1	110	106	102	98	107	103	100	97	99	96	93	95	92	90	91	89	87	85
2	101	93	87	82	98	91	86	81	88	83	79	84	80	77	81	78	75	73
3	92	83	75	69	90	81	74	69	78	72	67	75	70	66	72	68	65	63
4	85	74	66	59	83	72	65	59	70	63	58	67	62	57	65	60	56	54
5	78	66	58	52	76	65	57	51	63	56	51	61	55	50	59	54	49	47
6	73	60	51	45	71	59	51	45	57	50	45	55	49	44	54	48	44	42
7	67	55	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	46	40	35	45	39	35	33
9	59	46	38	32	57	45	38	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	33	29	39	33	29	27

Spacing Criteria (0-180): 1.53

Spacing Criteria (90-270): 1.42

Spacing Criteria (Diagonal): 1.37



C Plane (°):0.0-360.0: 30.0

Test Lab:

Test Type: TYPE C

Temperature: 25

Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0

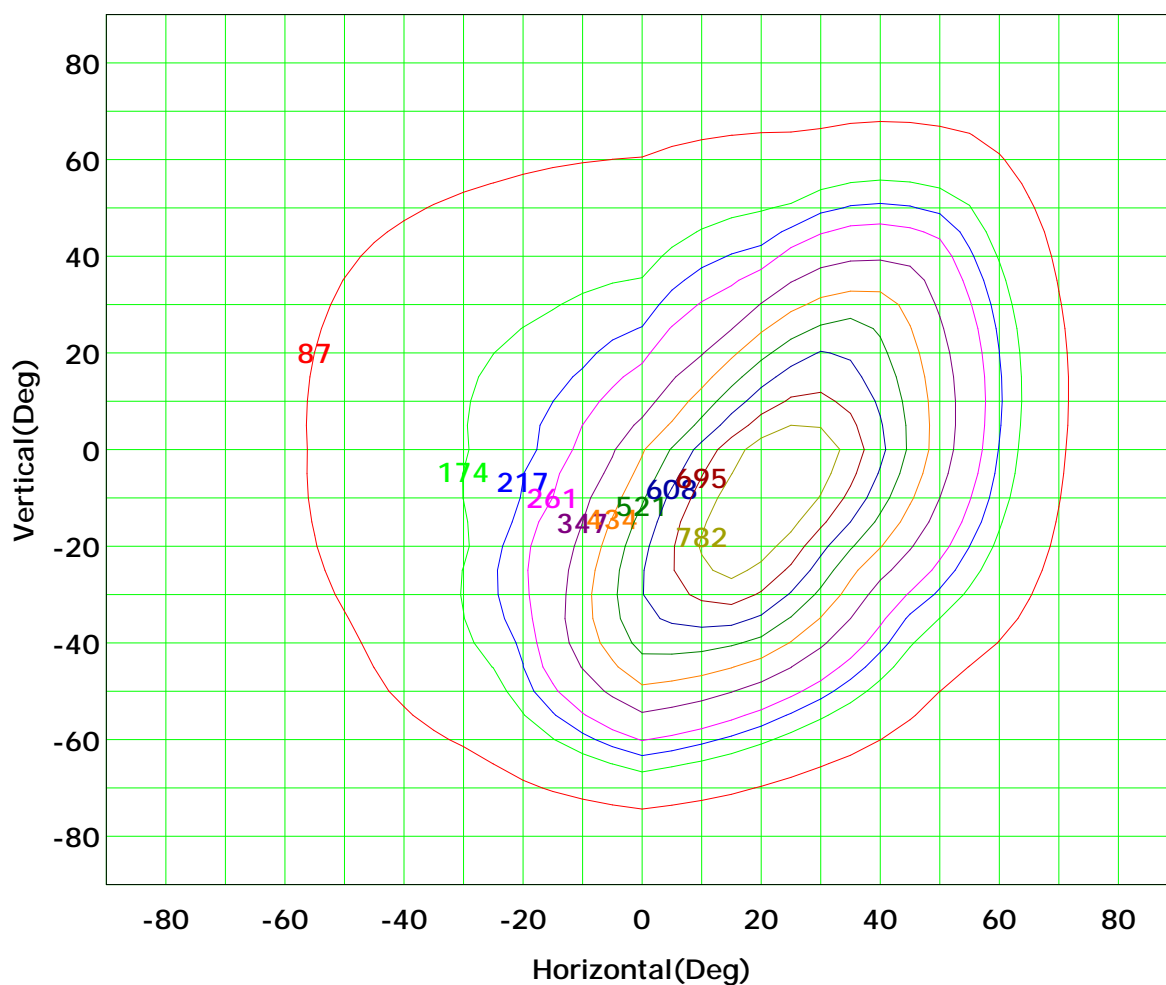
Test Device: GPM-1800B

Distance: 9.028 m

Humidity: 60%

Inspector:

## Isocandela (rectangle)



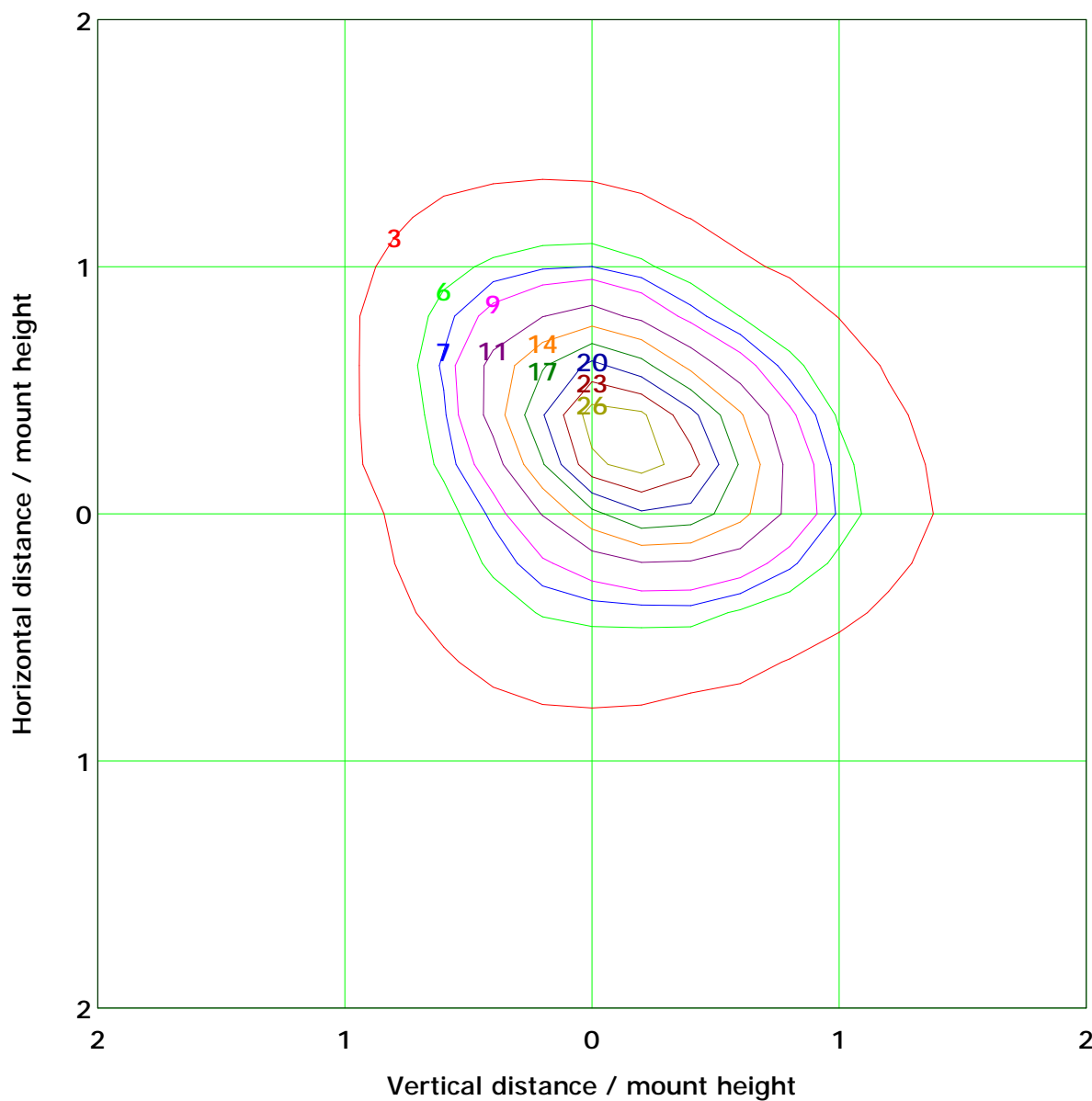
I<sub>max</sub> (100%): 869 cd

( 10%): 87 cd	( 20%): 174 cd
( 25%): 217 cd	( 30%): 261 cd
( 40%): 347 cd	( 50%): 434 cd
( 60%): 521 cd	( 70%): 608 cd
( 80%): 695 cd	( 90%): 782 cd

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## IsoLux Plot



Mounting Height: 5.0m    Max Lux(100%): 28.6 lx	
( 10%): 2.9 lx	( 20%): 5.7 lx
( 25%): 7.2 lx	( 30%): 8.6 lx
( 40%): 11.4 lx	( 50%): 14.3 lx
( 60%): 17.2 lx	( 70%): 20.0 lx
( 80%): 22.9 lx	( 90%): 25.8 lx

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

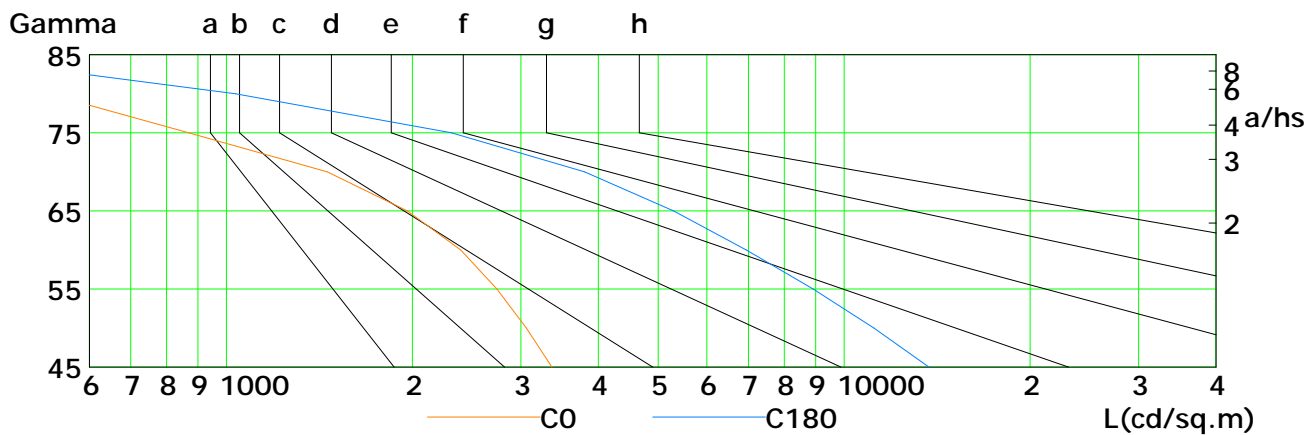
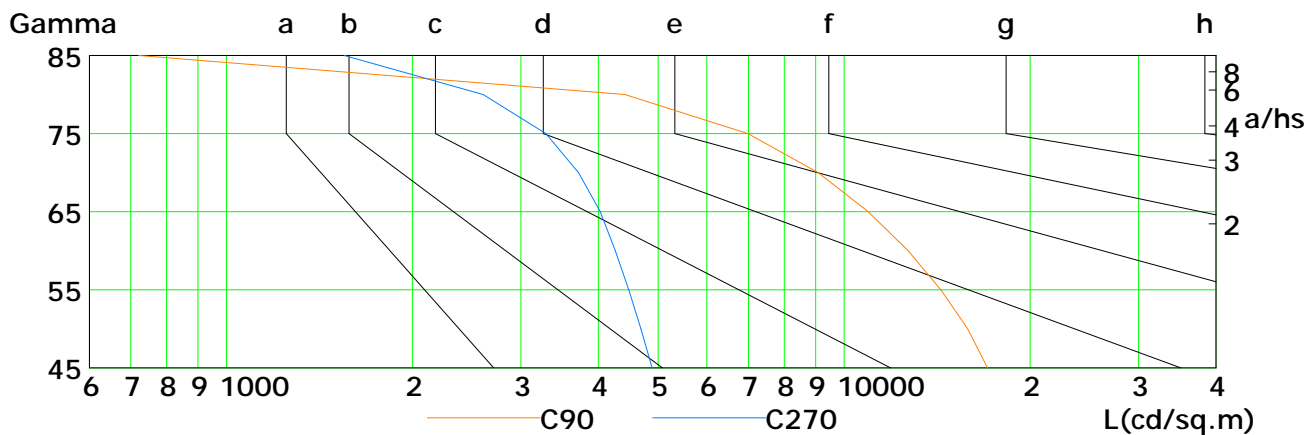
Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## Lum Limit Curve

Dazzle	Quality	Illuminance (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300

a b c d e f g h

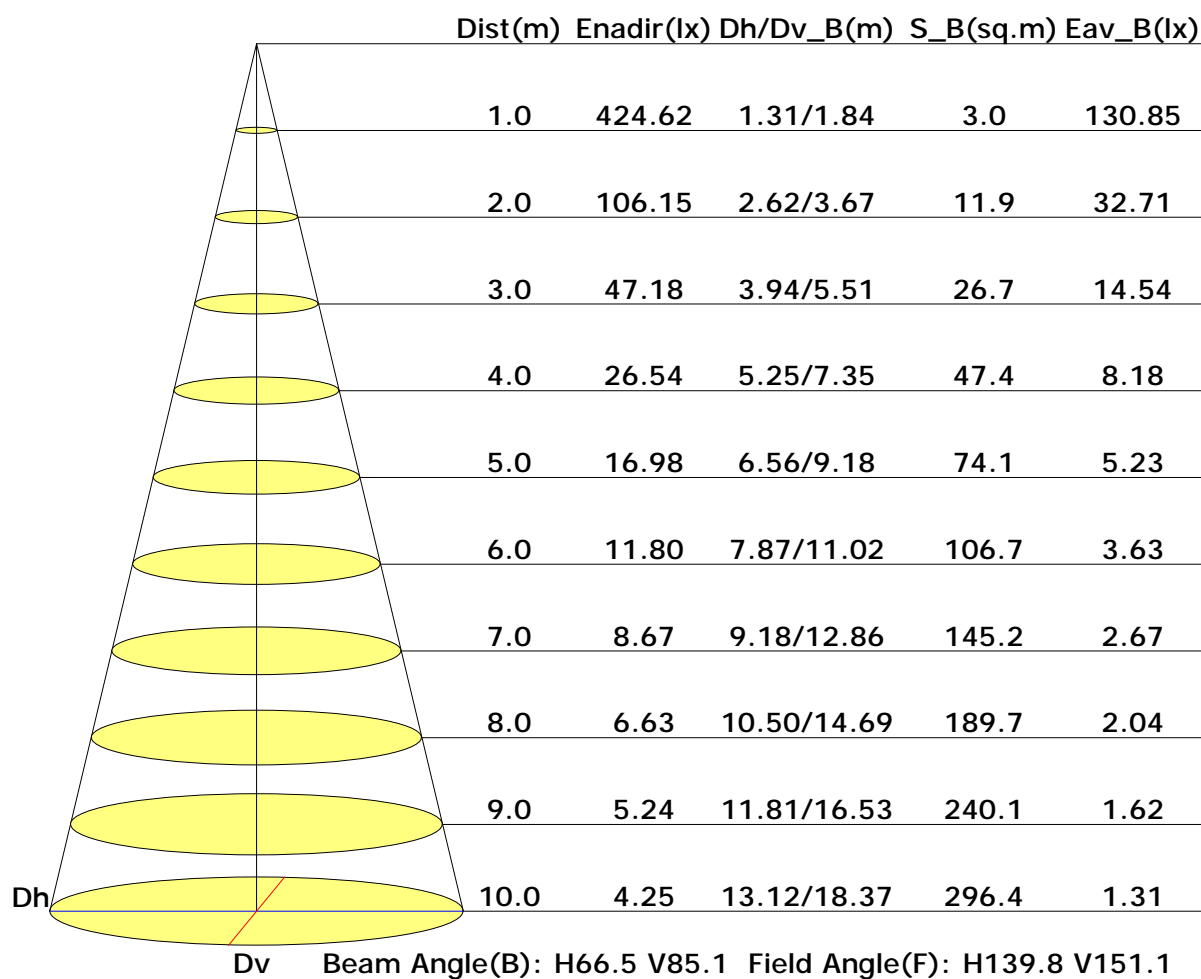


L(cd/sq.m)	G45	G50	G55	G60	G65	G70	G75	G80	G85
C0	3365	3059	2742	2395	1963	1456	869	515	175
C90	17065	15860	14350	12703	10941	9083	6990	4420	721
C180	13733	11176	8908	6949	5294	3801	2314	1034	337
C270	4889	4692	4485	4266	4032	3716	3291	2604	1553

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Illuminance at a Distance

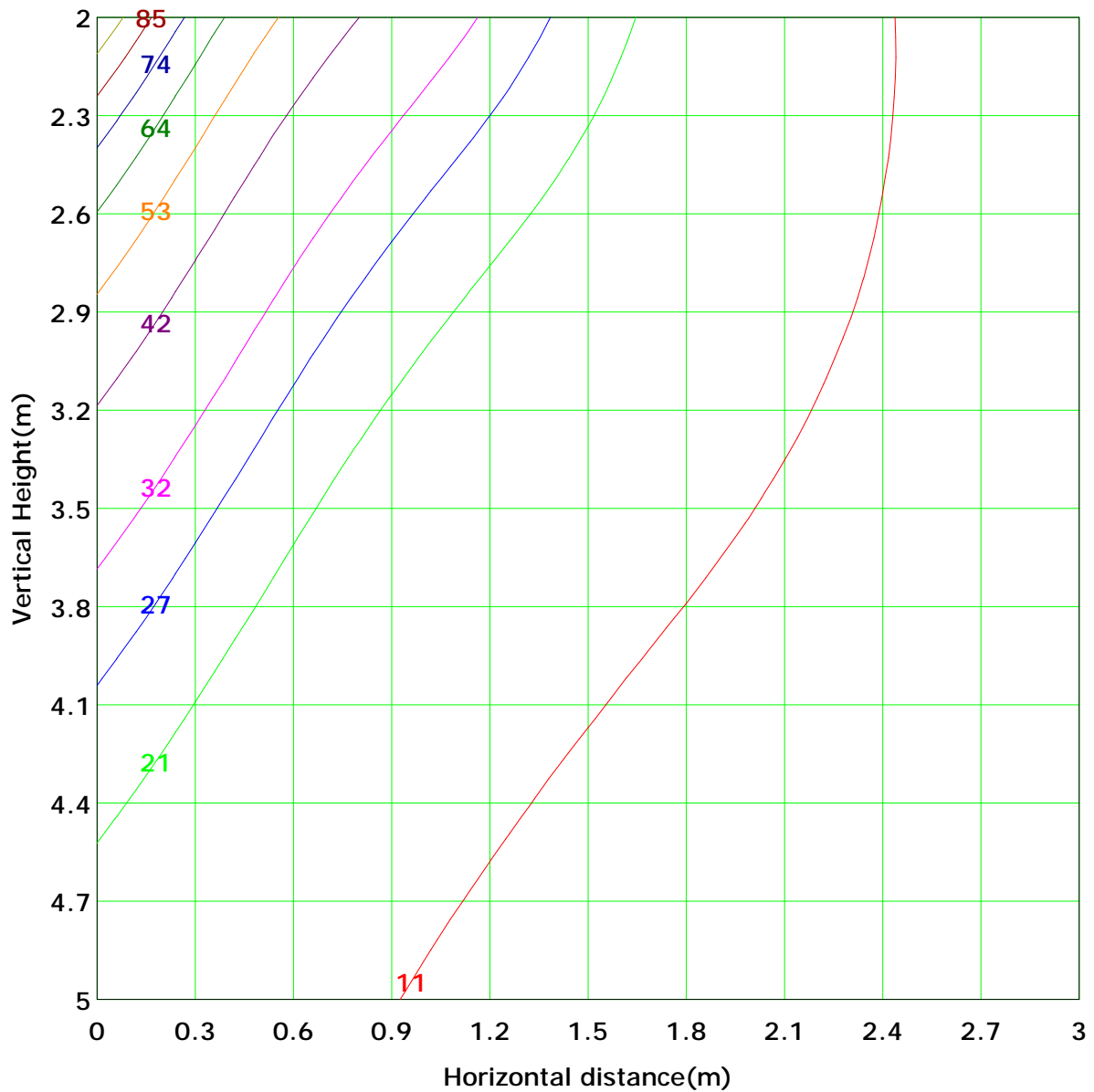


C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:



## Vertical IsoLux Plot



Lowest(m): 2.0m	Highest(m): 5.0m	Max Lux: 106.2 lx
( 10%): 10.6 lx	( 20%): 21.2 lx	
( 25%): 26.5 lx	( 30%): 31.8 lx	
( 40%): 42.5 lx	( 50%): 53.1 lx	
( 60%): 63.7 lx	( 70%): 74.3 lx	
( 80%): 84.9 lx	( 90%): 95.5 lx	

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

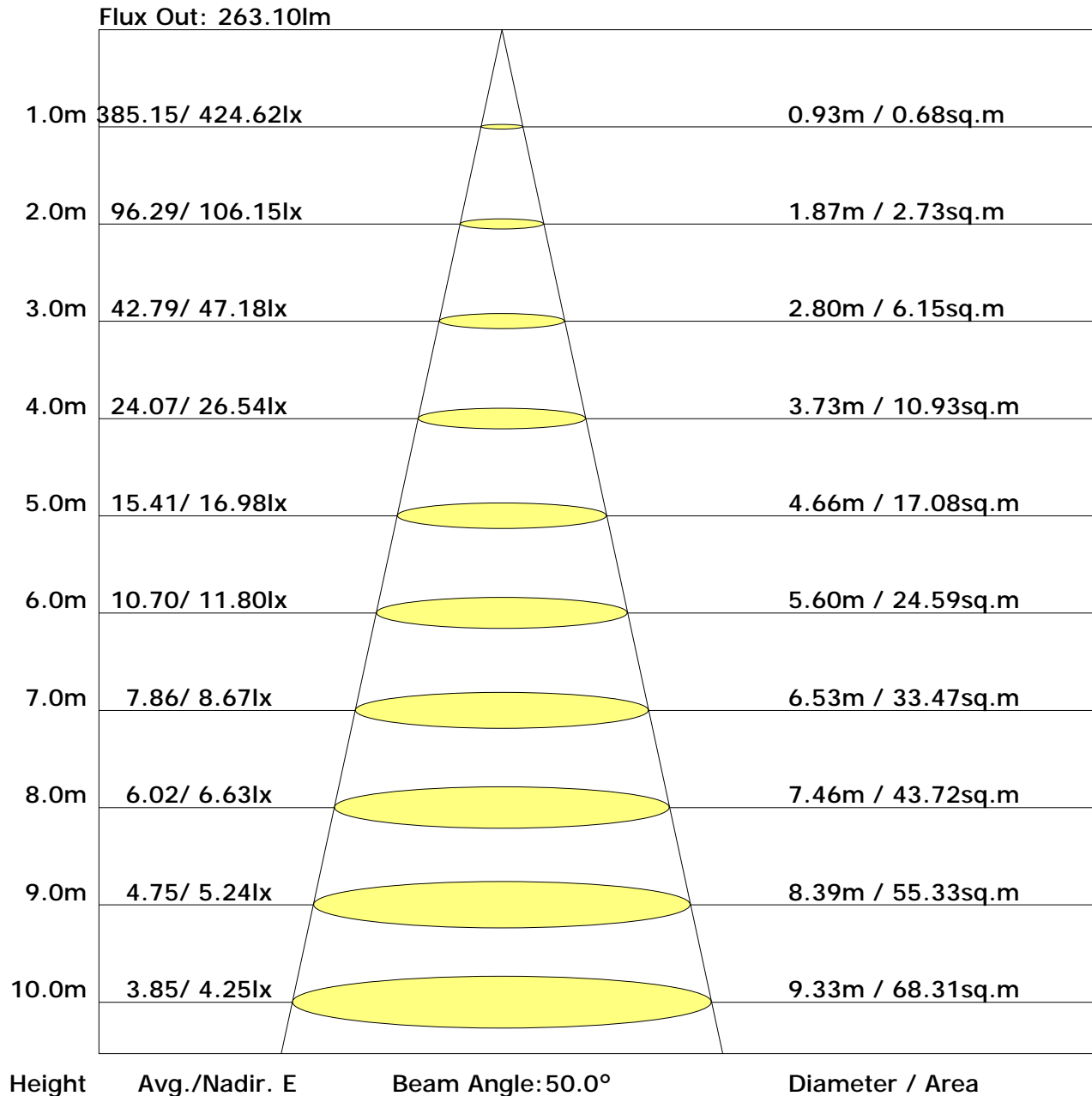
## Area Flux Table

Unit: lm

		Orbit: 111																				
		-90	-80	-70	-60	-50	-40	-30	-20	-10	0	10	20	30	40	50	60	70	80	90	Flux(T)	Flux(E)
Vertical plane	-90	0.0	0.0	0.0	0.1	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0	2.5	0.0
	-80	0.0	0.0	0.3	0.7	1.0	1.2	1.2	1.3	1.2	1.1	0.9	0.7	0.5	0.3	0.2	0.1	0.0	0.0	10.7	0.0	
	-70	0.0	0.1	0.7	1.5	2.2	2.5	2.5	2.5	2.4	2.1	1.9	1.5	1.1	0.7	0.4	0.2	0.1	0.0	22.5	8.5	
	-60	0.0	0.2	1.0	2.5	3.8	4.4	4.1	4.0	3.6	3.1	2.9	2.4	1.9	1.3	0.7	0.3	0.1	0.0	36.1	30.0	
	-50	0.0	0.3	1.4	3.6	5.8	6.8	6.2	5.6	4.8	4.2	3.8	3.2	2.5	1.8	1.0	0.4	0.1	0.0	51.4	48.1	
	-40	0.0	0.4	1.7	4.4	8.0	9.9	9.4	7.5	6.2	5.2	4.6	3.9	3.0	2.2	1.3	0.5	0.1	0.0	68.3	66.0	
	-30	0.0	0.5	2.0	5.0	9.4	13.4	13.3	10.4	8.0	6.3	5.4	4.5	3.5	2.4	1.5	0.6	0.1	0.0	86.3	84.3	
	-20	0.0	0.5	2.1	5.3	10.4	15.7	17.4	14.4	10.3	7.6	6.1	5.0	3.8	2.6	1.6	0.7	0.2	0.0	103.5	101.7	
	-10	0.0	0.5	2.1	5.4	10.9	17.7	21.3	19.0	13.6	9.4	6.7	5.1	3.9	2.7	1.6	0.7	0.2	0.0	120.8	119.0	
	0	0.0	0.5	1.9	5.0	10.4	17.8	23.4	22.8	17.5	11.3	7.4	5.3	3.9	2.7	1.6	0.7	0.2	0.0	132.4	130.6	
	10	0.0	0.4	1.7	4.3	8.8	15.2	22.0	24.2	20.0	13.4	8.4	5.4	3.8	2.6	1.6	0.7	0.2	0.0	132.6	130.7	
	20	0.0	0.3	1.4	3.4	6.6	11.6	18.6	23.1	20.7	15.0	9.0	5.8	3.7	2.4	1.4	0.6	0.2	0.0	123.8	121.5	
	30	0.0	0.3	1.0	2.4	4.7	8.7	14.2	18.5	18.6	14.9	9.1	5.6	3.6	2.2	1.3	0.6	0.1	0.0	105.9	102.9	
	40	0.0	0.2	0.7	1.5	3.3	6.1	9.7	12.9	14.5	12.7	8.3	4.9	3.2	1.9	1.0	0.4	0.1	0.0	81.3	77.3	
	50	0.0	0.1	0.4	0.9	2.0	3.8	5.9	8.1	9.7	9.0	6.3	3.8	2.4	1.5	0.8	0.3	0.1	0.0	55.1	50.0	
	60	0.0	0.0	0.2	0.4	1.0	1.9	3.1	4.4	5.5	5.3	3.9	2.4	1.6	0.9	0.5	0.2	0.0	0.0	31.5	23.9	
	70	0.0	0.0	0.1	0.1	0.3	0.6	1.0	1.7	2.3	2.3	1.7	1.1	0.7	0.4	0.2	0.1	0.0	0.0	12.5	2.7	
	80	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	1.5	0.0	
	90	0.3	4.4	18.6	46.6	88.8	137.5	173.7	180.6	159.4	123.4	86.7	61.0	43.4	28.7	16.5	7.2	1.8	0.2	1179		
	Flux(E)	0.0	0.4	14.6	43.0	85.2	133.8	169.8	176.4	154.9	118.4	81.5	55.3	37.1	21.2	5.5	0.0	0.0	0.0		1097	
Horizontal plane																						



## The Average Illuminance Effective Figure



C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## UGR Table

Reflectance:										
Ceiling (cavity)	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
X=2H Y=2H	13.0	14.5	13.4	14.9	15.2	19.0	20.5	19.4	20.8	21.2
3H	14.3	15.7	14.7	16.0	16.4	20.2	21.6	20.6	21.9	22.3
4H	14.6	15.9	15.0	16.3	16.7	20.6	21.8	21.0	22.2	22.6
6H	14.7	15.9	15.2	16.3	16.7	20.7	21.8	21.1	22.2	22.7
8H	14.8	15.9	15.2	16.3	16.7	20.7	21.8	21.1	22.2	22.6
12H	14.8	15.8	15.2	16.2	16.7	20.6	21.7	21.1	22.1	22.6
X=4H Y=2H	13.6	14.9	14.1	15.3	15.7	19.1	20.3	19.5	20.7	21.1
3H	15.0	16.1	15.5	16.5	16.9	20.4	21.4	20.8	21.9	22.3
4H	15.4	16.3	15.9	16.8	17.3	20.8	21.7	21.2	22.1	22.6
6H	15.6	16.4	16.1	16.9	17.4	21.0	21.8	21.4	22.2	22.7
8H	15.6	16.4	16.1	16.9	17.3	20.9	21.7	21.4	22.2	22.7
12H	15.6	16.3	16.1	16.8	17.3	20.9	21.6	21.4	22.1	22.6
X=8H Y=4H	15.6	16.3	16.1	16.8	17.3	20.7	21.5	21.2	22.0	22.5
6H	15.8	16.4	16.3	16.9	17.4	20.9	21.5	21.4	22.1	22.6
8H	15.9	16.4	16.4	17.0	17.5	20.9	21.5	21.4	22.0	22.5
12H	15.9	16.4	16.4	16.9	17.5	20.9	21.4	21.4	21.9	22.5
X=12H Y=4H	15.6	16.3	16.1	16.8	17.3	20.7	21.4	21.2	21.9	22.4
6H	15.8	16.4	16.3	16.8	17.4	20.9	21.4	21.4	21.9	22.5
8H	15.9	16.4	16.4	16.9	17.5	20.9	21.4	21.4	21.9	22.5

Calculate in accordance with CIE 190:2010

C Plane (°):0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°):0.0-180.0:1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Utilisation Factor Table(Floor cavity)

Utilisation Factors UF(F)			SHR NOM = 1.25								
Room Reflectance			Room Index(RI)								
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.61	0.72	0.79	0.84	0.91	0.95	0.98	1.02	1.05
	0.30		0.54	0.65	0.72	0.78	0.85	0.90	0.94	0.99	1.02
	0.20		0.49	0.59	0.67	0.73	0.81	0.86	0.90	0.96	0.99
0.50	0.50	0.20	0.60	0.70	0.76	0.81	0.87	0.92	0.94	0.98	1.01
	0.30		0.53	0.63	0.71	0.76	0.83	0.88	0.91	0.95	0.98
	0.20		0.49	0.59	0.66	0.71	0.79	0.84	0.88	0.93	0.96
0.30	0.50	0.20	0.58	0.68	0.74	0.78	0.84	0.88	0.91	0.94	0.97
	0.30		0.52	0.62	0.69	0.74	0.81	0.85	0.88	0.92	0.95
	0.20		0.48	0.58	0.65	0.70	0.77	0.82	0.85	0.90	0.93
0.00	0.00	0.00	0.46	0.56	0.62	0.67	0.74	0.78	0.81	0.85	0.88
Rating: 12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980											

## Utilisation Factor Table(Wall)

Utilisation Factors UF(W)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.92	0.75	0.63	0.54	0.43	0.35	0.30	0.23	0.19	
	0.30		0.77	0.64	0.55	0.48	0.39	0.32	0.28	0.22	0.18	
	0.20		0.66	0.56	0.48	0.43	0.35	0.30	0.26	0.20	0.17	
0.50	0.50	0.20	0.88	0.71	0.60	0.52	0.41	0.37	0.28	0.22	0.18	
	0.30		0.75	0.62	0.53	0.46	0.37	0.31	0.26	0.20	0.17	
	0.20		0.65	0.55	0.47	0.42	0.34	0.29	0.25	0.19	0.16	
0.30	0.50	0.20	0.85	0.68	0.57	0.49	0.38	0.31	0.27	0.20	0.17	
	0.30		0.73	0.60	0.51	0.45	0.36	0.30	0.25	0.20	0.16	
	0.20		0.64	0.54	0.46	0.41	0.33	0.28	0.24	0.19	0.15	
0.00	0.00	0.00	0.53	0.43	0.37	0.32	0.25	0.21	0.18	0.14	0.11	
Rating: 12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Utilisation Factor Table(Ceiling cavity)

Utilisation Factors UF(C)			SHR NOM = 1.25									
Room Reflectance			Room Index(RI)									
Ceiling	Wall	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.17	0.18	0.19	0.20	0.21	0.21	0.22	0.22	0.23	
	0.30		0.11	0.12	0.14	0.15	0.16	0.18	0.18	0.20	0.20	
	0.20		0.06	0.08	0.09	0.11	0.13	0.14	0.16	0.17	0.18	
0.50	0.50	0.20	0.16	0.17	0.18	0.19	0.20	0.20	0.21	0.21	0.22	
	0.30		0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.20	
	0.20		0.06	0.08	0.09	0.11	0.12	0.14	0.15	0.17	0.18	
0.30	0.50	0.20	0.16	0.17	0.18	0.18	0.19	0.20	0.20	0.20	0.21	
	0.30		0.10	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	
	0.20		0.06	0.08	0.09	0.10	0.12	0.14	0.15	0.16	0.17	
0.00	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Rating: 12W Photometrically tested without ceiling board. Multiply UF values by service correction factors Calculate in accordance with CIBSE Technical Memorandum NO.5 1980												

## Zonal Lumen

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
0.0-1.0	416.6	0.4	0.4	0.03	0.03
1.0-2.0	417.0	1.2	1.6	0.10	0.13
2.0-3.0	417.7	2.0	3.6	0.17	0.30
3.0-4.0	418.8	2.8	6.4	0.23	0.54
4.0-5.0	420.2	3.6	10.0	0.30	0.84
5.0-6.0	421.9	4.4	14.4	0.37	1.21
6.0-7.0	423.8	5.3	19.7	0.44	1.65
7.0-8.0	426.1	6.1	25.8	0.51	2.16
8.0-9.0	428.5	6.9	32.8	0.58	2.74
9.0-10.0	431.1	7.8	40.6	0.65	3.40
10.0-11.0	433.8	8.7	49.2	0.73	4.12
11.0-12.0	436.7	9.5	58.8	0.80	4.92
12.0-13.0	439.6	10.4	69.2	0.87	5.80
13.0-14.0	442.5	11.3	80.5	0.95	6.74
14.0-15.0	445.3	12.2	92.8	1.02	7.77
15.0-16.0	448.0	13.1	105.9	1.10	8.87
16.0-17.0	450.4	14.0	119.9	1.17	10.04
17.0-18.0	452.6	14.9	134.8	1.25	11.29
18.0-19.0	454.5	15.8	150.7	1.32	12.62
19.0-20.0	456.0	16.7	167.3	1.40	14.02
20.0-21.0	457.0	17.5	184.9	1.47	15.49
21.0-22.0	457.4	18.4	203.3	1.54	17.03
22.0-23.0	457.2	19.2	222.5	1.61	18.63
23.0-24.0	456.3	20.0	242.4	1.67	20.30
24.0-25.0	454.7	20.7	263.1	1.73	22.04
25.0-26.0	452.3	21.4	284.5	1.79	23.82
26.0-27.0	449.1	22.0	306.4	1.84	25.66
27.0-28.0	445.0	22.5	329.0	1.89	27.55
28.0-29.0	440.2	23.0	352.0	1.93	29.48
29.0-30.0	434.6	23.5	375.5	1.97	31.45
30.0-31.0	428.3	23.8	399.3	2.00	33.44
31.0-32.0	421.2	24.1	423.4	2.02	35.46
32.0-33.0	413.5	24.4	447.8	2.04	37.50
33.0-34.0	405.3	24.5	472.3	2.05	39.56
34.0-35.0	396.5	24.6	497.0	2.06	41.62
35.0-36.0	387.4	24.7	521.6	2.07	43.69

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:



## Zonal Lumen (Continue 1)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
36.0-37.0	377.7	24.6	546.3	2.06	45.75
37.0-38.0	367.9	24.6	570.8	2.06	47.81
38.0-39.0	357.9	24.4	595.3	2.05	49.85
39.0-40.0	347.6	24.2	619.5	2.03	51.88
40.0-41.0	337.1	24.0	643.5	2.01	53.90
41.0-42.0	326.6	23.7	667.2	1.99	55.88
42.0-43.0	316.1	23.4	690.7	1.96	57.84
43.0-44.0	305.6	23.1	713.7	1.93	59.78
44.0-45.0	294.9	22.7	736.4	1.90	61.68
45.0-46.0	284.5	22.2	758.7	1.86	63.54
46.0-47.0	274.0	21.8	780.4	1.83	65.36
47.0-48.0	263.6	21.3	801.8	1.78	67.15
48.0-49.0	253.4	20.8	822.6	1.74	68.89
49.0-50.0	243.4	20.3	842.9	1.70	70.59
50.0-51.0	233.4	19.7	862.6	1.65	72.25
51.0-52.0	223.7	19.2	881.8	1.61	73.85
52.0-53.0	214.1	18.6	900.4	1.56	75.41
53.0-54.0	204.7	18.0	918.5	1.51	76.92
54.0-55.0	195.5	17.5	935.9	1.46	78.39
55.0-56.0	186.5	16.9	952.8	1.41	79.80
56.0-57.0	177.6	16.2	969.0	1.36	81.16
57.0-58.0	168.9	15.6	984.6	1.31	82.47
58.0-59.0	160.5	15.0	999.7	1.26	83.72
59.0-60.0	152.2	14.4	1014.0	1.20	84.93
60.0-61.0	144.0	13.7	1027.8	1.15	86.08
61.0-62.0	136.0	13.1	1040.9	1.10	87.18
62.0-63.0	128.1	12.5	1053.3	1.04	88.22
63.0-64.0	120.4	11.8	1065.2	0.99	89.21
64.0-65.0	112.8	11.2	1076.3	0.94	90.14
65.0-66.0	105.4	10.5	1086.8	0.88	91.02
66.0-67.0	98.1	9.9	1096.7	0.83	91.85
67.0-68.0	91.0	9.2	1105.9	0.77	92.62
68.0-69.0	84.2	8.6	1114.5	0.72	93.34
69.0-70.0	77.5	8.0	1122.5	0.67	94.01
70.0-71.0	71.0	7.3	1129.8	0.62	94.62
71.0-72.0	64.9	6.7	1136.6	0.57	95.19

C Plane (°): 0.0-360.0: 30.0  
Test Lab:  
Test Type: TYPE C  
Temperature: 25  
Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
Test Device: GPM-1800B  
Distance: 9.028 m  
Humidity: 60%  
Inspector:

## Zonal Lumen (Continue 2)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
72.0-73.0	58.8	6.2	1142.7	0.52	95.70
73.0-74.0	53.0	5.6	1148.3	0.47	96.17
74.0-75.0	47.4	5.0	1153.3	0.42	96.59
75.0-76.0	41.9	4.4	1157.7	0.37	96.96
76.0-77.0	36.6	3.9	1161.7	0.33	97.29
77.0-78.0	31.8	3.4	1165.1	0.28	97.58
78.0-79.0	27.2	2.9	1168.0	0.25	97.82
79.0-80.0	23.0	2.5	1170.5	0.21	98.03
80.0-81.0	19.4	2.1	1172.6	0.18	98.20
81.0-82.0	15.9	1.7	1174.3	0.14	98.35
82.0-83.0	12.5	1.4	1175.6	0.11	98.46
83.0-84.0	9.6	1.0	1176.7	0.09	98.55
84.0-85.0	6.9	0.8	1177.4	0.06	98.61
85.0-86.0	4.7	0.5	1178.0	0.04	98.66
86.0-87.0	3.1	0.3	1178.3	0.03	98.68
87.0-88.0	2.0	0.2	1178.5	0.02	98.70
88.0-89.0	1.3	0.1	1178.7	0.01	98.71
89.0-90.0	1.0	0.1	1178.8	0.01	98.72
90.0-91.0	0.9	0.1	1178.9	0.01	98.73
91.0-92.0	0.9	0.1	1179.0	0.01	98.74
92.0-93.0	1.0	0.1	1179.1	0.01	98.75
93.0-94.0	1.0	0.1	1179.2	0.01	98.76
94.0-95.0	1.0	0.1	1179.3	0.01	98.77
95.0-96.0	1.1	0.1	1179.4	0.01	98.78
96.0-97.0	1.1	0.1	1179.5	0.01	98.79
97.0-98.0	1.1	0.1	1179.7	0.01	98.80
98.0-99.0	1.2	0.1	1179.8	0.01	98.81
99.0-100.0	1.2	0.1	1179.9	0.01	98.82
100.0-101.0	1.3	0.1	1180.1	0.01	98.83
101.0-102.0	1.3	0.1	1180.2	0.01	98.84
102.0-103.0	1.4	0.1	1180.4	0.01	98.86
103.0-104.0	1.4	0.1	1180.5	0.01	98.87
104.0-105.0	1.4	0.2	1180.7	0.01	98.88
105.0-106.0	1.5	0.2	1180.8	0.01	98.90
106.0-107.0	1.5	0.2	1181.0	0.01	98.91
107.0-108.0	1.6	0.2	1181.1	0.01	98.92

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 3)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
108.0-109.0	1.6	0.2	1181.3	0.01	98.94
109.0-110.0	1.7	0.2	1181.5	0.01	98.95
110.0-111.0	1.7	0.2	1181.7	0.02	98.97
111.0-112.0	1.8	0.2	1181.9	0.02	98.98
112.0-113.0	1.9	0.2	1182.0	0.02	99.00
113.0-114.0	1.9	0.2	1182.2	0.02	99.01
114.0-115.0	2.0	0.2	1182.4	0.02	99.03
115.0-116.0	2.1	0.2	1182.6	0.02	99.05
116.0-117.0	2.1	0.2	1182.8	0.02	99.06
117.0-118.0	2.2	0.2	1183.1	0.02	99.08
118.0-119.0	2.2	0.2	1183.3	0.02	99.10
119.0-120.0	2.3	0.2	1183.5	0.02	99.12
120.0-121.0	2.3	0.2	1183.7	0.02	99.14
121.0-122.0	2.4	0.2	1183.9	0.02	99.16
122.0-123.0	2.5	0.2	1184.2	0.02	99.18
123.0-124.0	2.5	0.2	1184.4	0.02	99.19
124.0-125.0	2.6	0.2	1184.6	0.02	99.21
125.0-126.0	2.6	0.2	1184.9	0.02	99.23
126.0-127.0	2.7	0.2	1185.1	0.02	99.25
127.0-128.0	2.8	0.2	1185.3	0.02	99.27
128.0-129.0	2.8	0.2	1185.6	0.02	99.29
129.0-130.0	2.9	0.2	1185.8	0.02	99.31
130.0-131.0	2.9	0.2	1186.1	0.02	99.34
131.0-132.0	3.0	0.2	1186.3	0.02	99.36
132.0-133.0	3.0	0.2	1186.6	0.02	99.38
133.0-134.0	3.1	0.2	1186.8	0.02	99.40
134.0-135.0	3.1	0.2	1187.0	0.02	99.42
135.0-136.0	3.2	0.2	1187.3	0.02	99.44
136.0-137.0	3.3	0.2	1187.5	0.02	99.46
137.0-138.0	3.3	0.2	1187.8	0.02	99.48
138.0-139.0	3.3	0.2	1188.0	0.02	99.50
139.0-140.0	3.4	0.2	1188.3	0.02	99.52
140.0-141.0	3.4	0.2	1188.5	0.02	99.54
141.0-142.0	3.5	0.2	1188.7	0.02	99.56
142.0-143.0	3.5	0.2	1189.0	0.02	99.58
143.0-144.0	3.6	0.2	1189.2	0.02	99.60

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector:

## Zonal Lumen (Continue 4)

Gamma [°]	I <sub>mean</sub> [cd]	Zonal Flux [lm]	Sum Zonal Flux [lm]	Rel Zonal Flux [%]	Sum Rel Zonal Flux [%]
144.0-145.0	3.6	0.2	1189.4	0.02	99.62
145.0-146.0	3.6	0.2	1189.7	0.02	99.64
146.0-147.0	3.7	0.2	1189.9	0.02	99.66
147.0-148.0	3.7	0.2	1190.1	0.02	99.67
148.0-149.0	3.7	0.2	1190.3	0.02	99.69
149.0-150.0	3.8	0.2	1190.5	0.02	99.71
150.0-151.0	3.8	0.2	1190.7	0.02	99.73
151.0-152.0	3.9	0.2	1190.9	0.02	99.74
152.0-153.0	3.9	0.2	1191.1	0.02	99.76
153.0-154.0	3.9	0.2	1191.3	0.02	99.78
154.0-155.0	3.9	0.2	1191.5	0.02	99.79
155.0-156.0	4.0	0.2	1191.7	0.02	99.81
156.0-157.0	4.0	0.2	1191.9	0.01	99.82
157.0-158.0	4.0	0.2	1192.0	0.01	99.84
158.0-159.0	4.1	0.2	1192.2	0.01	99.85
159.0-160.0	4.1	0.2	1192.4	0.01	99.86
160.0-161.0	4.1	0.2	1192.5	0.01	99.87
161.0-162.0	4.2	0.1	1192.7	0.01	99.89
162.0-163.0	4.2	0.1	1192.8	0.01	99.90
163.0-164.0	4.2	0.1	1192.9	0.01	99.91
164.0-165.0	4.3	0.1	1193.1	0.01	99.92
165.0-166.0	4.3	0.1	1193.2	0.01	99.93
166.0-167.0	4.4	0.1	1193.3	0.01	99.94
167.0-168.0	4.4	0.1	1193.4	0.01	99.95
168.0-169.0	4.4	0.1	1193.5	0.01	99.96
169.0-170.0	4.5	0.1	1193.6	0.01	99.96
170.0-171.0	4.5	0.1	1193.7	0.01	99.97
171.0-172.0	4.5	0.1	1193.7	0.01	99.98
172.0-173.0	4.5	0.1	1193.8	0.01	99.98
173.0-174.0	4.6	0.1	1193.8	0.00	99.99
174.0-175.0	4.6	0.0	1193.9	0.00	99.99
175.0-176.0	4.6	0.0	1193.9	0.00	99.99
176.0-177.0	4.6	0.0	1194.0	0.00	100.00
177.0-178.0	4.6	0.0	1194.0	0.00	100.00
178.0-179.0	4.6	0.0	1194.0	0.00	100.00
179.0-180.0	4.7	0.0	1194.0	0.00	100.00

C Plane (°): 0.0-360.0: 30.0  
 Test Lab:  
 Test Type: TYPE C  
 Temperature: 25  
 Operator: Jacky

Gamma Plane (°): 0.0-180.0: 1.0  
 Test Device: GPM-1800B  
 Distance: 9.028 m  
 Humidity: 60%  
 Inspector: